



| | | | | |
|--|--------|-------|------------------------------|------------------------|
| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET TOTAL NO. SHEETS |
| | | | | |
| | | | | |
| July 1, 2004 PLANS APPROVAL DATE | | | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. | | | | |
| To get to the Caltrans web site, go to: http://www.dot.ca.gov | | | | |

**M**

| | |
|------------|------------------------------------|
| Maint | maintenance |
| Max | maximum |
| MB | metal beam |
| MBB | metal beam barrier |
| MBGR | metal beam guard railing |
| Med | median |
| MH | manhole |
| Min | minimum |
| Misc | miscellaneous |
| Misc I & S | miscellaneous iron and steel |
| Mkr | marker |
| mm | millimeter(s) |
| Mod | modified, |
| | modify |
| Mon | monument |
| MP | metal plate |
| MPGR | metal plate guard railing |
| MR | movement rating |
| MSE | mechanically stabilized embankment |
| Mtl | material |

N

| | |
|------|----------------------------|
| N | north |
| (N) | new |
| NB | northbound |
| No. | number (must have period) |
| Nos. | numbers (must have period) |
| NPS | nominal pipe size |
| NS | near side |
| NTS | not to scale |
| Ø | nominal diameter |

O

| | |
|------|------------------------------|
| Oblr | obliterate |
| OC | overcrossing |
| OD | outside diameter |
| OF | outside face |
| OG | original ground |
| OGAC | open graded asphalt concrete |
| OH | overhead |
| O-O | out to out |
| Opp | opposite |

P

| | |
|----------|----------------------------------|
| p | page |
| PAP | perforated aluminum pipe |
| PB | pull box |
| PC | point of curvature, |
| | precast |
| PCC | point of compound curve, |
| | portland cement concrete |
| PCP | perforated concrete pipe, |
| | prestressed concrete pipe |
| PCVC | point of compound vertical curve |
| Ped | pedestrian |
| Ped OC | pedestrian overcrossing |
| Ped UC | pedestrian undercrossing |
| Perm Mtl | permeable material |
| PG | profile grade |

P continued

| | |
|---------|-------------------------------------|
| PI | point of intersection |
| PJP | partial joint penetration |
| PL | plate |
| P/L | property line |
| PM | post mile, |
| | time from noon to midnight |
| PN | paving notch |
| POC | point of horizontal curve |
| POT | point of tangent |
| POVC | point of vertical curve |
| PP | pipe pile, |
| | plastic pipe, |
| | power pole |
| PPL | preformed permeable liner |
| PPP | perforated plastic pipe |
| PRC | point of reverse curve |
| PRF | pavement reinforcing fabric |
| PRVC | point of reverse vertical curve |
| PS&E | plans, specifications and estimates |
| PS, P/S | prestressed |
| PSP | perforated steel pipe |
| PT | point of tangency |
| PVC | polyvinyl chloride |
| Pvmt | pavement |

Q

| | |
|-----|----------|
| Qty | quantity |
|-----|----------|

R

| | |
|-------|-------------------------------|
| R | radius |
| R & D | remove and dispose |
| R & S | remove and salvage |
| R/C | rate of change |
| RCA | reinforced concrete arch |
| RCB | reinforced concrete box |
| RCP | reinforced concrete pipe |
| RPCA | reinforced concrete pipe arch |
| Rd | road |
| Reinf | reinforced, |
| | reinforcement, |
| | reinforcing |
| Rel | relocate |
| Repl | replacement |
| Ret | retaining |
| Rev | revised |
| Rdwy | roadway |
| RM | road-mixed |
| RP | radius point, |
| | reference point |
| RR | railroad |
| RSP | rock slope protection |
| Rt | right |
| Rte | route |
| RW | redwood, |
| | retaining wall |
| R/W | right of way |
| Rwy | railway |

S

| | |
|----------|-----------------------------------|
| S | south, |
| | supplement |
| SAE | structure approach embankment |
| Salv | salvage |
| SAPP | structural aluminum plate pipe |
| SB | southbound |
| SC | sand cushion |
| SCSP | sacked concrete slope protection, |
| | slotted corrugated steel pipe |
| SD | storm drain |
| Sec | second, |
| | section |
| Sep | separation |
| SG | subgrade |
| Shld | shoulder |
| Sht | sheet |
| SI | international system of units |
| Sim | similar |
| SL | station line |
| SM | selected material |
| Spec | special, |
| | specifications |
| SPP | slotted plastic pipe |
| SS | slope stake |
| SSBM | strap and saddle bracket method |
| SSD | structural section drain |
| SSPA | structural steel plate arch |
| SSPP | structural steel plate pipe |
| SSPPA | structural steel plate pipe arch |
| SSRP | steel spiral rib pipe |
| St | street |
| STA, Sta | station |
| STBB | single thrie beam barrier |
| Std | standard |
| Str | structure |
| Surf | surfacing |
| SW | sidewalk, |
| | sound wall |
| Swr | sewer |
| Sym | symmetrical |
| S4S | surface 4 sides |

T

| | |
|-------|----------------------------|
| T | semi-tangent |
| TAB | tablet |
| Tan | tangent |
| TBB | thrie beam barrier |
| Tbr | timber |
| TC | top of curb |
| TCB | traffic control box |
| Tel | telephone |
| Temp | temporary |
| TG | top of grade |
| Tot | total |
| TP | telephone pole |
| TPB | treated permeable base |
| TPM | treated permeable material |
| Trans | transition, |
| | transverse |

T continued

| | |
|-----|-----------------|
| TS | traffic signal, |
| | tubular steel |
| Typ | typical |

U

| | |
|-----|------------------------|
| UC | undercrossing |
| UD | underdrain |
| UON | unless otherwise noted |
| UP | underpass |

V

| | |
|------|---------------------|
| V | valve, |
| | design speed |
| Var | variable |
| VC | vertical curve |
| VCP | vitrified clay pipe |
| Vert | vertical |
| Via | viaduct |
| Vol | volume |

W

| | |
|-------|----------------------|
| W | west, |
| | width |
| WB | westbound |
| WH | weep hole |
| WM | wire mesh |
| WS | water surface |
| WSP | welded steel pipe |
| Wt | weight |
| WV | water valve |
| WW | wing wall |
| WWLOL | wingwall layout line |

X

| | |
|-------|---------------|
| X Sec | cross section |
| Xing | crossing |

Y

| | |
|-----|-------|
| Yr | year |
| Yrs | years |

SI PREFIXES

| SYMBOL | PREFIX | MULTIPLICATION FACTOR |
|--------|--------|-----------------------|
| m | milli- | 10 ⁻³ |
| k | kilo- | 10 ³ |
| M | mega- | 10 ⁶ |
| G | giga- | 10 ⁹ |

METRIC UNITS (SI)

| SYMBOL | UNIT |
|--------|-----------------|
| m | meter |
| g | gram |
| s | second |
| A | ampere |
| °C | degrees Celsius |
| Hz | hertz |
| N | newton |
| Pa | pascal |
| L | liter |
| ha | hectare |
| W | Watt |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACRONYMS AND ABBREVIATIONS (M-Z)

NO SCALE

A10B